IP Video Surveillance

C-MOR ...and you see more!

User Manual

C-MOR 6P

...and you see more!

Instructions for C-MOR Video Surveillance

Version 2.00

Introduction

Dear customer,

Thank you for choosing the C-MOR video server.
The quality product you have purchased is state-of-the-art and complies with European and national directives.
The declaration of compliance has been confirmed and all necessary documents are deposited with the manufacturer.
To ensure the best results and long-term satisfaction and to ensure safe operation, the instructions in this manual must be followed. In case of questions, please contact your specialist dealer.
The video server C-MOR is used for the surveillance of objects. The video signals recorded during surveillance are digitally transferred over the connected network from your camera to C-MOR. The software installed on the hardware enables simultaneous recordings of max. six connected video signals. Data saving underlies country-specific guidelines. You are able to access installed cameras and servers (secured by password and encryption) over your web browser from all over the world.

In case of technical problems or questions on installation and setup of C-MOR, please contact our hotline. Please find more information on www.c-mor.us (or please see contact data in the appendix of this manual).

Before putting into operation

The use of surveillance systems may be prohibited or regulated by law in certain countries. C-MOR has not only been developed for high performance use over the internet but can also be part of a flexible surveillance facility.

Before putting the system into operation the user has to make sure that surveillance is carried out within regulatory framework. Before the installation, please make sure that the package content is complete. In order to avoid damage by incorrect connection or wrong configuration, please read the manual carefully before using this device, follow the instructions and keep the manual for future use. Following the instructions ensures that the device will be correctly put into operation. Please visit our forum for solutions on www.c-mor.us for FAQ on configuration errors. In case you encounter problems during the setup of your system, please visit the forum as a first step for finding a solution.

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1 Installation

The installation process of C-MOR is very easy. The complete setup consists of just three steps - C-MOR is then ready for recording.

Software requirements of your PC:

An Internet browser supporting the following web technologies:

- JavaScript
- HTTP 1.1
- Cookies

Most of today's browsers like Internet Explorer 6.0 or Mozilla Firefox 2.0 are suitable for the administration and the use of C-MOR. The majority of operating systems include Java VM (Virtual Machine). In case your operating system does not support Java VM, for viewing live streams of the camera it will be necessary to install a Java runtime environment (e.g. Java Runtime Environment, JRE by Sun).

For the playback of video recordings, MPEG-2 and MPEG-4 codices are required. Most software DVD- players like WinDVD or PowerDVD support these codices but it may be necessary to install the codec separately. Windows is already equipped with these codices by the means of the Media Player. Current versions of Linux derivatives also offer suitable movie players with correspondent codices. We recommend the VLC Player for Macintosh Operating Systems.

Most suitable for the display of the C-MOR web interface is the web browser Mozilla Firefox.

1.1 Package Contents

Carefully unpack the C-MOR package and ensure that you have the following items:

- 1x C-MOR-Box
- 1x 2 m network cable
- 1x power cable for C-MOR
- 4x stand support
- This instruction manual on CD

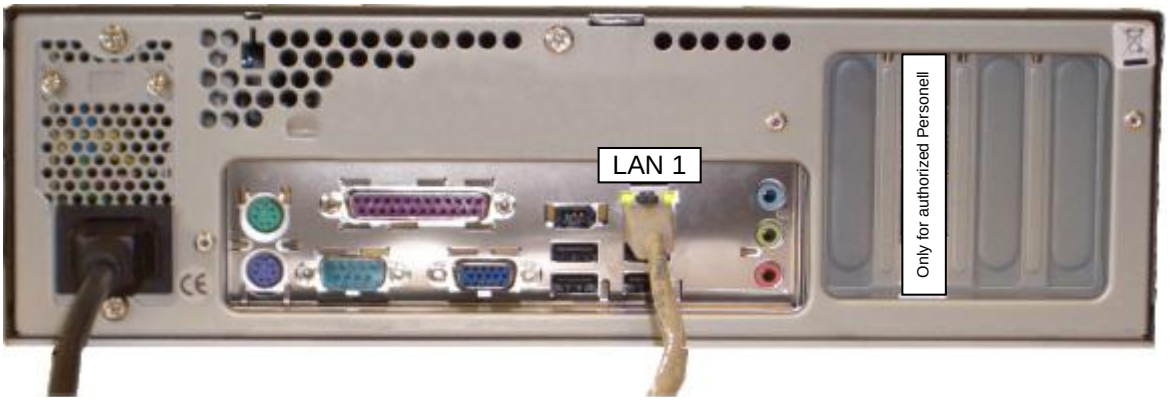
1.2 Setup of Camera

Connect camera and C-MOR over router or switch to the network. Make sure that the network components transmit all IP protocols. If necessary, settings of the firewall have to be adjusted. Please follow the instructions of the graphic below.

1.3 Setup of C-MOR

Make sure that the device is set up on a safe and even surface where it is not exposed to intensive humidity or extreme variations in temperature. C-MOR must not be exposed to direct sunlight. For safety reasons C-MOR should be set up where only authorized personnel has access. Your recordings are only safe if C-MOR is protected from demolition and theft!

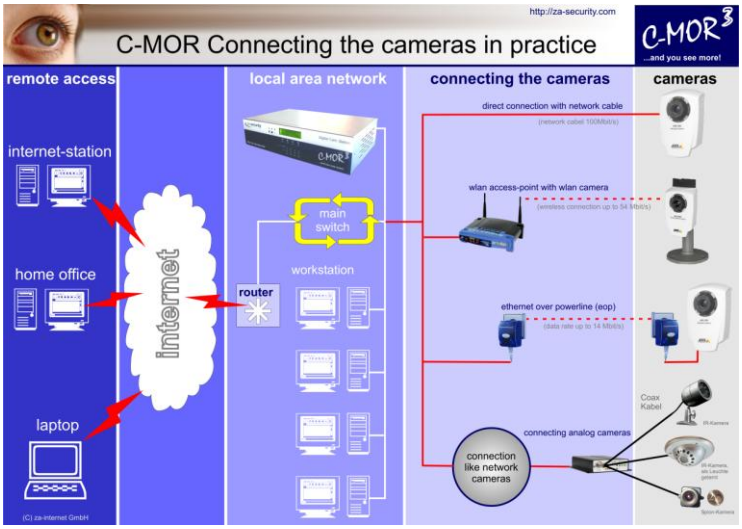
Connect C-MOR to the power supply using the power cable and to the network using the network cable (2 m).



The interface marked with the sticker “ONLY FOR AUTHORIZED PERSONNEL” is not suitable for network operating but only for maintenance use. Please do not use that connection!

1.4 Setup of Existing Network

Connect LAN1 of C-MOR with your network. C-MOR will be ready for operation as soon as you have specified an IP address of your network area as described under Administration/Change of IP Address.



1.5 The Display (optional)

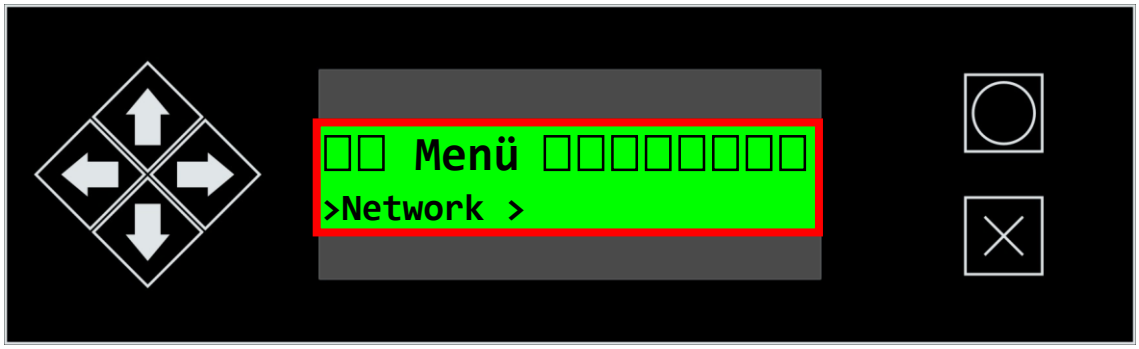
The following instructions only apply when you have purchased C-MOR including a display.

1.5.1 Setup IP Address

After the switch-on of C-MOR, the system requires 3-4 minutes until it is ready for use. During this time the display will not change.

As soon as the system is ready, the display will change every 3 seconds showing current system information. You can now start with the definition of the IP address.

Please follow the instructions below to define the required IP address:



Press ☒ to enter the main menu. Then use the arrow keys (up/down) to navigate to the menu item **> Network** > and select by pressing the key ◯. By using the arrow keys ◆ or ◆ select the menu item **>IP >** and again select by pressing the key ◯.

By using the arrow key ◆ can now choose the number that has to be changed and can increase or decrease it by using the keys ◆ ◆

By pressing the key ☒ you will leave the menu.

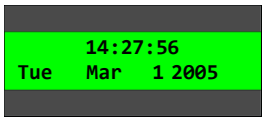
Now you can access C-MOR over the defined IP address.

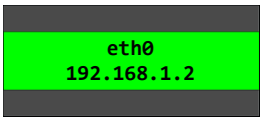
By choosing the menu item **>Subnet >** and **>Gateway >** you can enter corresponding IP address or change them.

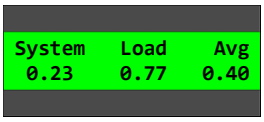
By selecting the menu item **>Reboot >** C-MOR can be restarted and by selecting **>Shutdown >** it can be switched off.

1.5.2 Display System Status

During service C-MOR shows current system information on its display.
The display changes every 3 seconds.







The information is always displayed in the same order and includes the following data:

- **Current date and system time**
- **Current messages from the system log** (in case available)
- **IP address of C-MOR**
- **Capacity of hard disk in %**
  In case the status exceeds 90%, old recordings should be archived or deleted.
- **Average system load**
  The three figures displayed show the average system load during the last minute, the past 5 minutes and the past 15 minutes.
- **Current CPU and system load**
- **System uptime**
  The running time of C-MOR since the last restart.
  This information can also be retrieved over the web interface of C-MOR.

1.6 Support

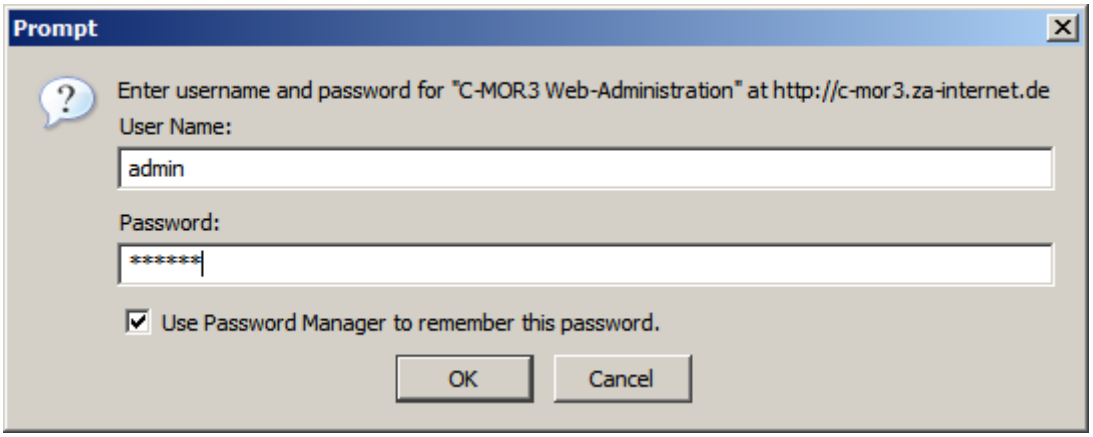
In case of unexpected problems during the C-MOR installation please contact our support by the help of the online support form under http://www.c-mor.us.
Please also check out the support forum on our homepage where you can find many cases that might answer your questions.

2 The Web Interface

The main tool for the operation and administration of C-MOR is the web interface. Enter the IP address such as 192.168.1.2. into the address bar of your web browser as described under step 2. A window will pop up asking for your user name and password.

The unit is supplied with one pre-configured Administrator user name and password, set to operate and administrate, respectively.

User name: **admin,** standard password **za1990**



C-MOR is be controlled by your individual settings over your web browser:

- Time-controlled recordings
- View of live stream by camera
- Sensitivity of motion detection
- User administration: distribution of rights, creation of new user etc.
- Call, search and display old recordings either as video files or single frames
- Archiving of recordings
- FTP transfer of recordings to a server
- Deletion of recordings for the release of free disk space
- Integration of own cameras (when supported by the system)
- And many more

More information can be found in chapter “Administration“.

Besides HTTP connections that are transferred over the Internet without encryption C-MOR also offers encrypted access over HTTPS.

In order to use this so-called SSL connection, enter https instead of http in the URL, such as

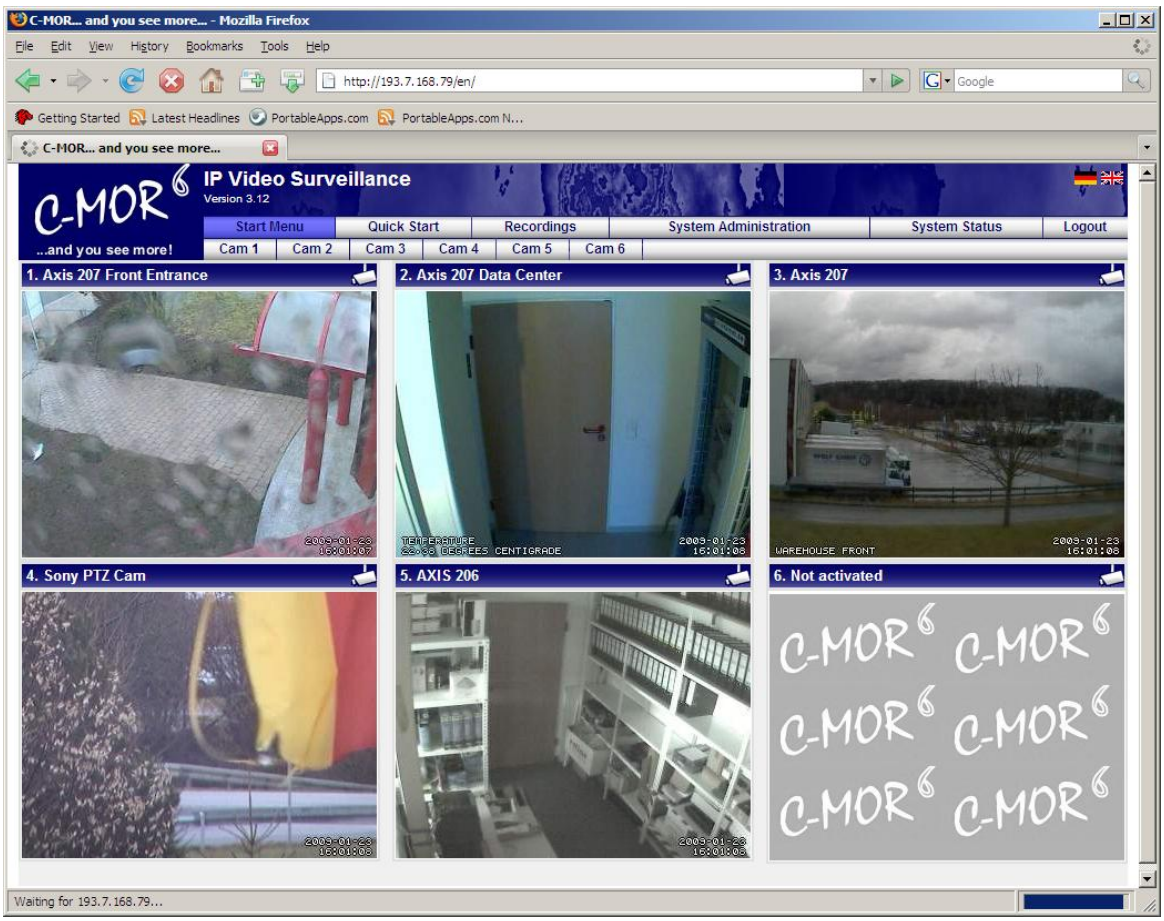
https://c-mor.your-domain.us. or https://IP-address (e.g. 192.168.1.2)

Apart from the standard ports 80 for HTTP and port 443 for HTTPS, C-MOR can also be used over the alternative port 9000 (for HTTP) and port 9443 (for HTTPS). These alternative ports are used when C-MOR is accessed over a firewall and the respective ports on the firewall are already in use by other applications.

The WWW surface is divided into 6 web sides that are built on each other and individual pages for the corresponding camera:

2.1 Start Page

The start page consists of the menu in the upper section of the page, the help menu on the left, 6 camera live views and the reference to the camera functions.

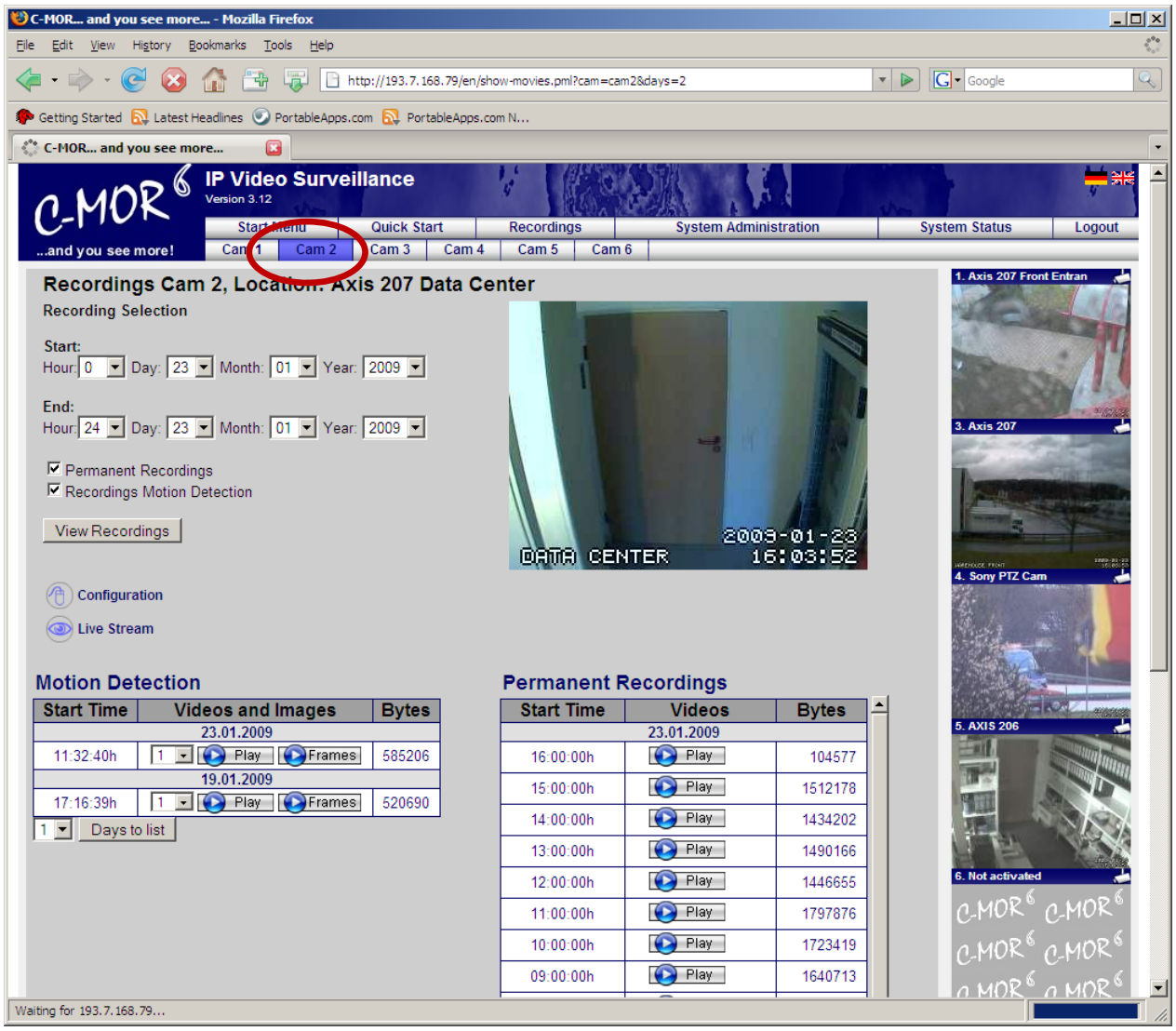


On the start page you will find an overview of all functions for the operation and administration of C-MOR. As soon as a camera within the net is activated and starts recording, an up-to-date snapshot by the camera will be displayed.

2.1.1 Camera Page

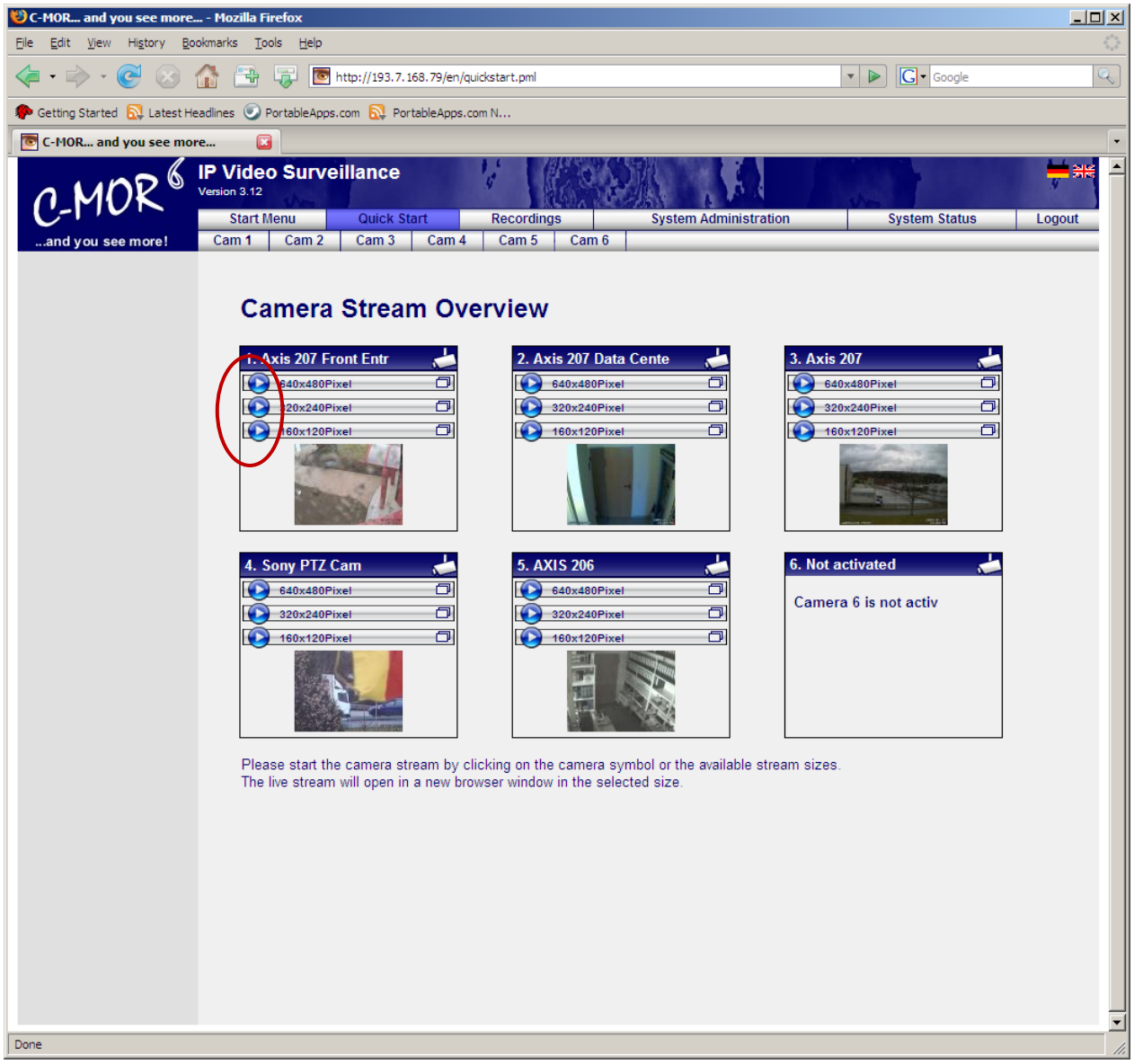
By clicking the button

you will get to the “Camera Page”. Here you will be able to see a live image of your camera - provided there is an active connection to it. Furthermore on this page you have the possibility to play the recordings of the respective camera, to save, to get to the page where the camera can be configured and to view a live stream in a separate window.



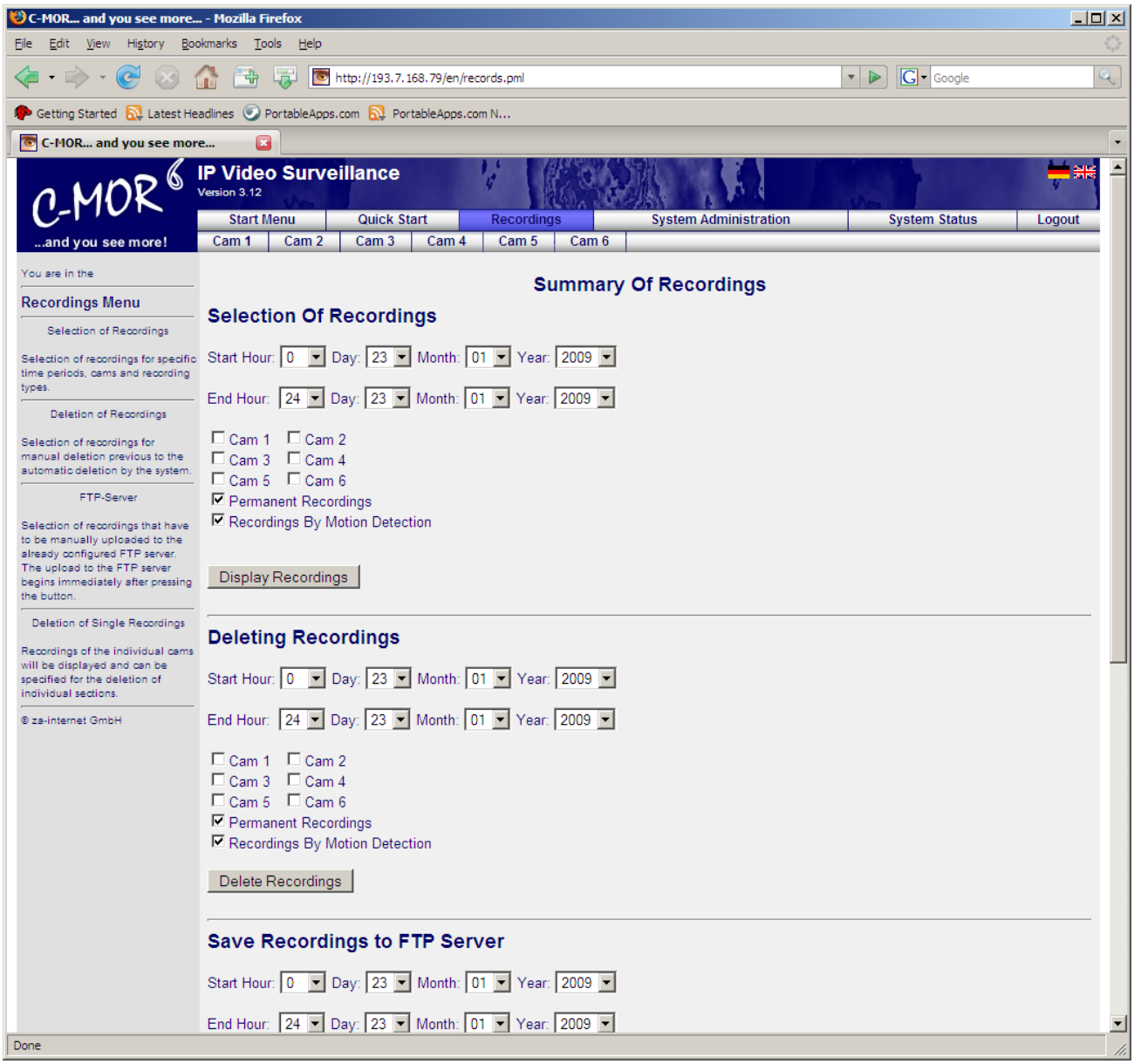
2.2 Quick Start Page

On the quick start page you are able to choose the size of the stream by clicking on the play button of the camera in question. The live stream will then open and start playing in the requested size in a separate window.


C-MOR... and you see more... - Mozilla Firefox
File Edit View History Bookmarks Tools Help
http://193.7.168.79/en/quickstart.pml
Getting Started Latest Headlines PortableApps.com PortableApps.com N...
C-MOR... and you see more...
C-MOR 6
...and you see more!
IP Video Surveillance
Version 3.12
Start Menu
Quick Start
Recordings
System Administration
System Status
Logout
Cam 1 Cam 2 Cam 3 Cam 4 Cam 5 Cam 6
Camera Stream Overview
1. Axis 207 Front Entr
2. Axis 207 Data Cente
3. Axis 207
640x480Pixel
320x240Pixel
160x120Pixel
4. Sony PTZ Cam
5. AXIS 206
6. Not activated
Camera 6 is not activ
Please start the camera stream by clicking on the camera symbol or the available stream sizes.
The live stream will open in a new browser window in the selected size.
Done

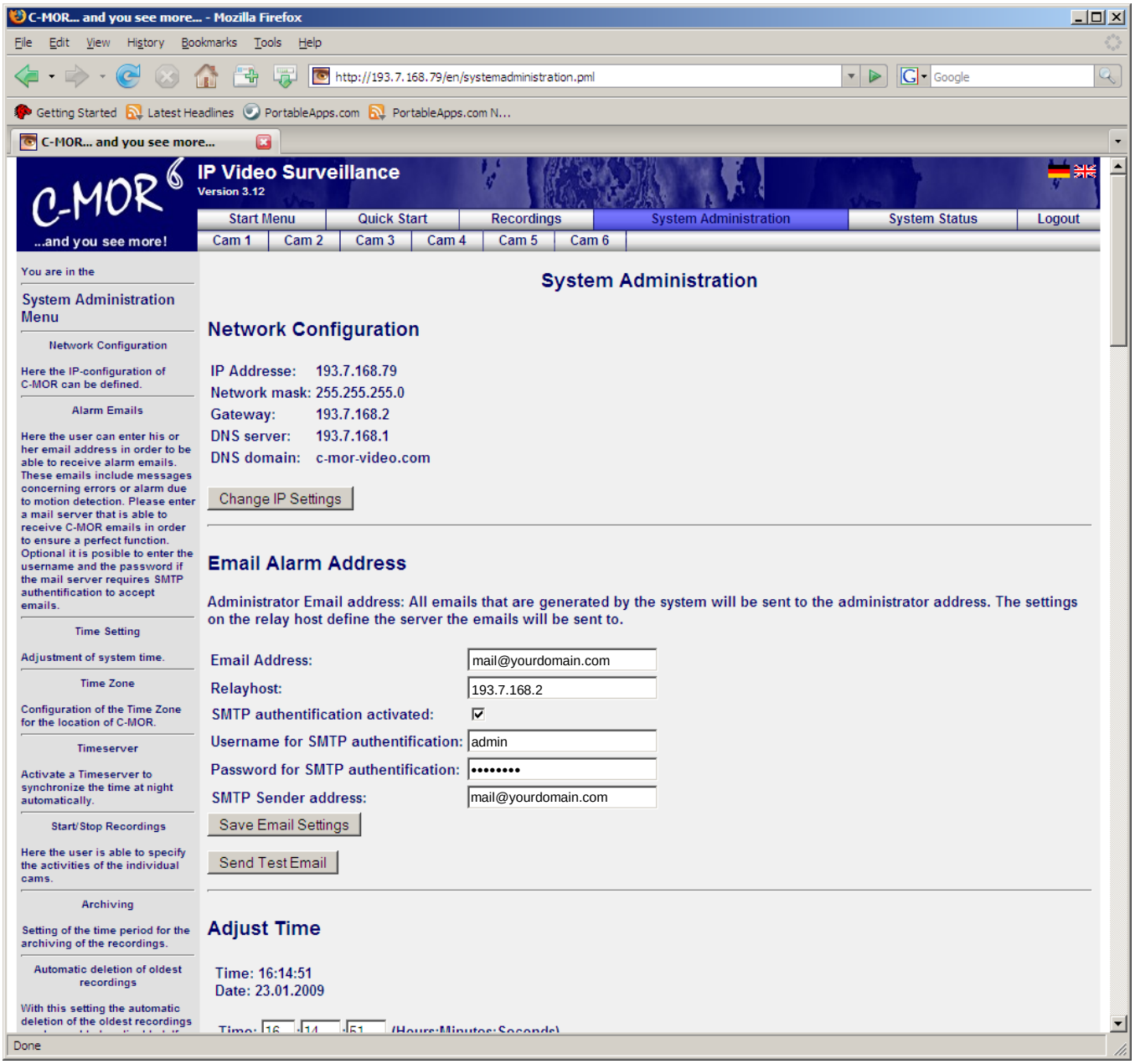
2.3 Recordings

Under the menu item “Overview Recordings” your recordings can be administrated. Settings like start/stop, type, deletion, save via FTP and select individual recordings for deletion can be carried out on this page.


C-MOR... and you see more... - Mozilla Firefox
File Edit View History Bookmarks Tools Help
http://193.7.168.79/en/records.pml
Getting Started Latest Headlines PortableApps.com PortableApps.com N...
C-MOR... and you see more...
C-MOR
...and you see more!
IP Video Surveillance
Version 3.12
Start Menu
Quick Start
Recordings
System Administration
System Status
Logout
Cam 1
Cam 2
Cam 3
Cam 4
Cam 5
Cam 6
You are in the
Recordings Menu
Selection of Recordings
Selection of recordings for specific time periods, cams and recording types.
Deletion of Recordings
Selection of recordings for manual deletion previous to the automatic deletion by the system.
FTP-Server
Selection of recordings that have to be manually uploaded to the already configured FTP server. The upload to the FTP server begins immediately after pressing the button.
Deletion of Single Recordings
Recordings of the individual cams will be displayed and can be specified for the deletion of individual sections.
© za-internet GmbH
Summary Of Recordings
Selection Of Recordings
Start Hour: 0 Day: 23 Month: 01 Year: 2009
End Hour: 24 Day: 23 Month: 01 Year: 2009
Cam 1 Cam 2
Cam 3 Cam 4
Cam 5 Cam 6
Permanent Recordings
Recordings By Motion Detection
Display Recordings
Deleting Recordings
Start Hour: 0 Day: 23 Month: 01 Year: 2009
End Hour: 24 Day: 23 Month: 01 Year: 2009
Cam 1 Cam 2
Cam 3 Cam 4
Cam 5 Cam 6
Permanent Recordings
Recordings By Motion Detection
Delete Recordings
Save Recordings to FTP Server
Start Hour: 0 Day: 23 Month: 01 Year: 2009
End Hour: 24 Day: 23 Month: 01 Year: 2009
Done

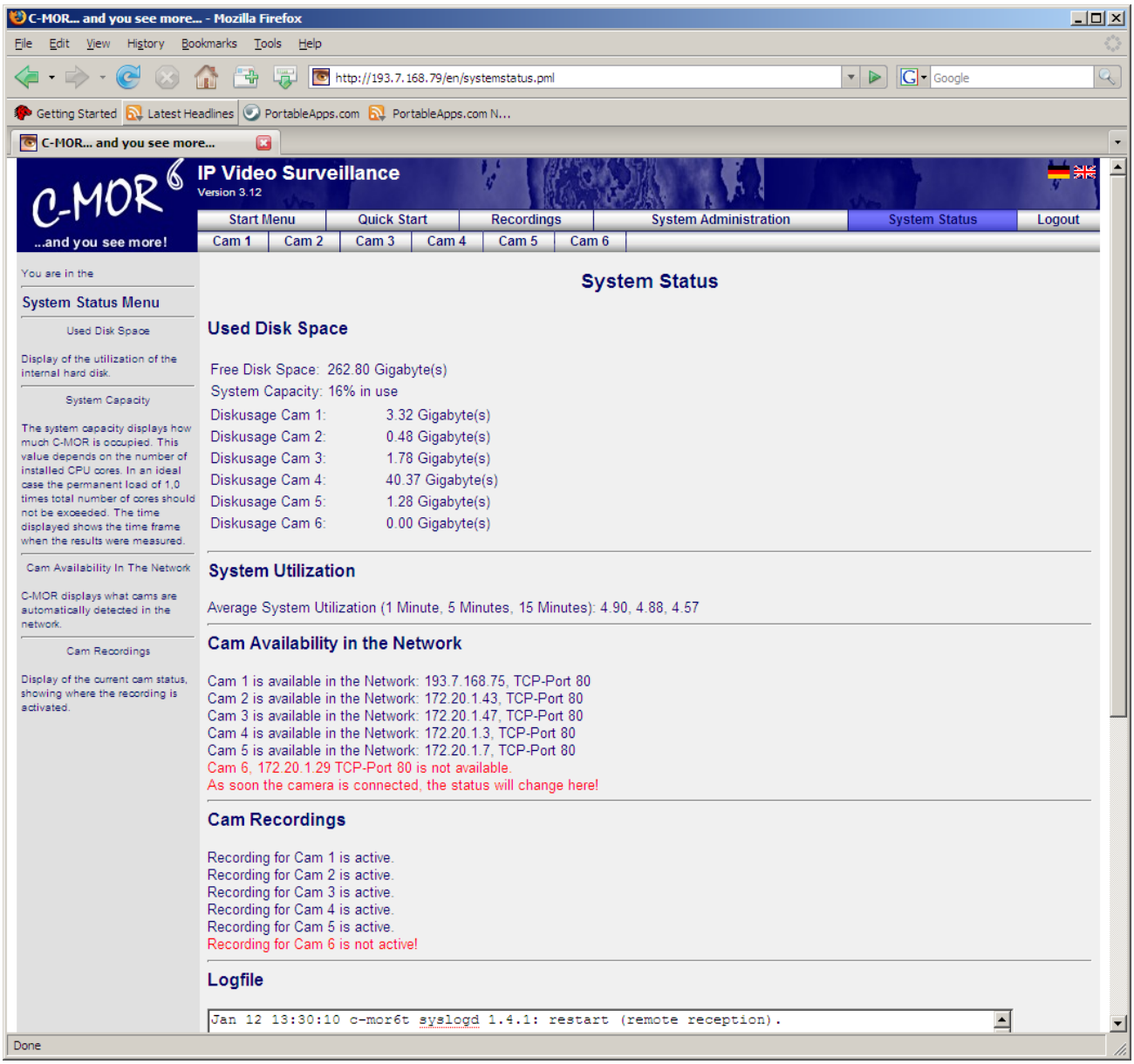
2.4 System Administration

Under “System Administration” you can define all important configuration settings in order to adjust C-MOR to your requirements and ensure a smooth operation in your network. The following sub chapters go into the details of the different configuration options.


C-MOR... and you see more... - Mozilla Firefox
File Edit View History Bookmarks Tools Help
http://193.7.168.79/en/systemadministration.pml
Getting Started Latest Headlines PortableApps.com PortableApps.com N...
C-MOR... and you see more...
C-MOR 6
...and you see more!
IP Video Surveillance
Version 3.12
Start Menu
Quick Start
Recordings
System Administration
System Status
Logout
Cam 1 Cam 2 Cam 3 Cam 4 Cam 5 Cam 6
You are in the
System Administration Menu
Network Configuration
Here the IP-configuration of C-MOR can be defined.
Alarm Emails
Here the user can enter his or her email address in order to be able to receive alarm emails. These emails include messages concerning errors or alarm due to motion detection. Please enter a mail server that is able to receive C-MOR emails in order to ensure a perfect function. Optional it is posible to enter the username and the password if the mail server requires SMTP authentification to accept emails.
Time Setting
Adjustment of system time.
Time Zone
Configuration of the Time Zone for the location of C-MOR.
Timeserver
Activate a Timeserver to synchronize the time at night automatically.
Start/Stop Recordings
Here the user is able to specify the activities of the individual cams.
Archiving
Setting of the time period for the archiving of the recordings.
Automatic deletion of oldest recordings
With this setting the automatic deletion of the oldest recordings
System Administration
Network Configuration
IP Addresse: 193.7.168.79
Network mask: 255.255.255.0
Gateway: 193.7.168.2
DNS server: 193.7.168.1
DNS domain: c-mor-video.com
Change IP Settings
Email Alarm Address
Administrator Email address: All emails that are generated by the system will be sent to the administrator address. The settings on the relay host define the server the emails will be sent to.
Email Address: mail@yourdomain.com
Relayhost: 193.7.168.2
SMTP authentification activated:
Username for SMTP authentification: admin
Password for SMTP authentification: ••••••••
SMTP Sender address: mail@yourdomain.com
Save Email Settings
Send Test Email
Adjust Time
Time: 16:14:51
Date: 23.01.2009
Done

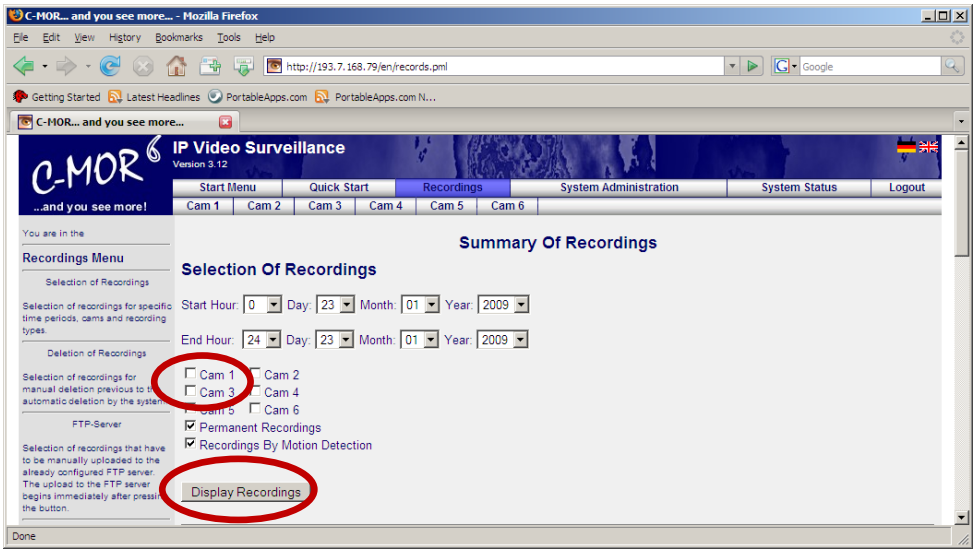
2.5 System Status

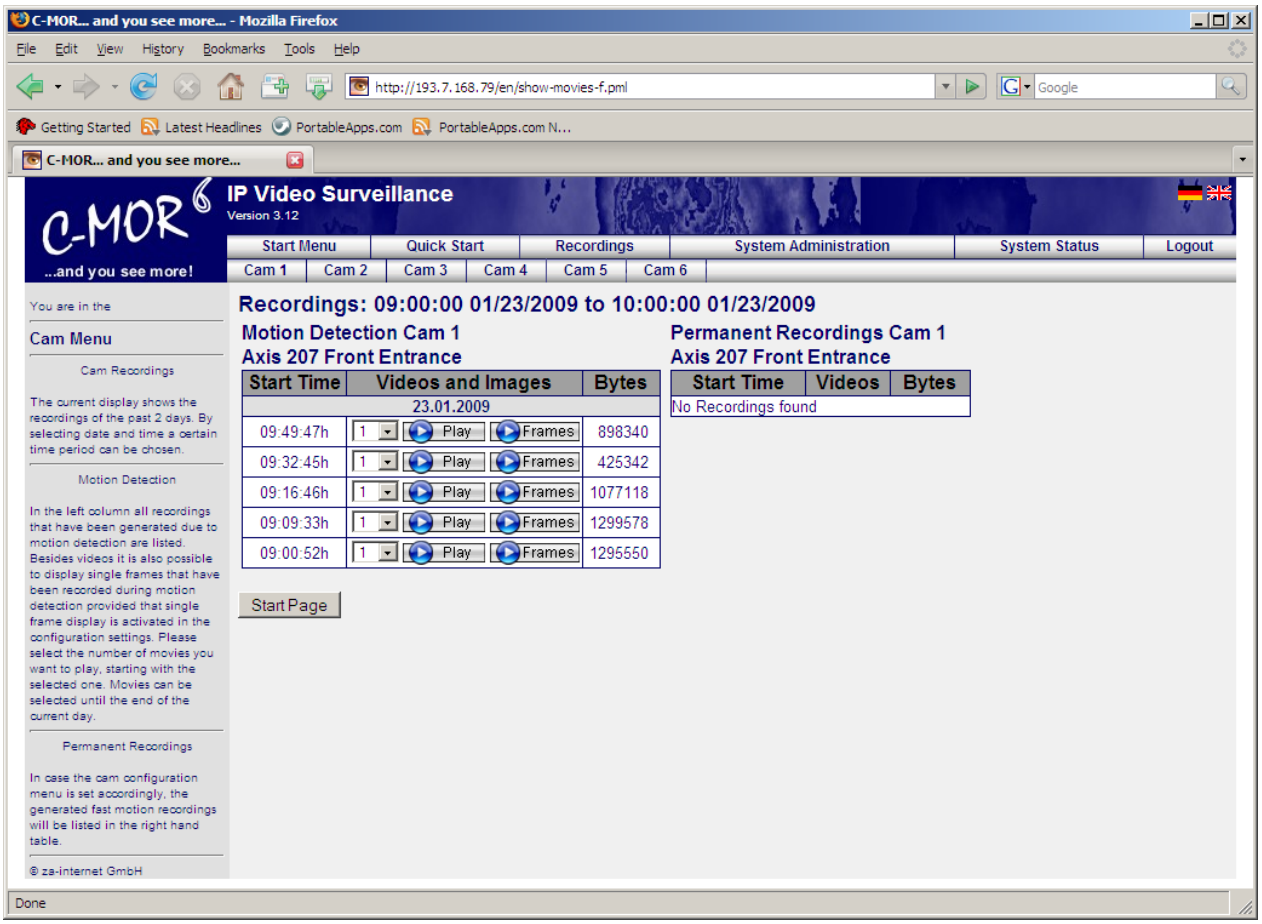
Under “System Status” there is an overview listing status information of C-MOR. Besides detailed information on system utilization, used disk space and camera availability, a large text window displays system status messages that can sent to the support by email in case of questions. Using this help, problems can be solved quickly and efficiently.


C-MOR... and you see more... - Mozilla Firefox
File Edit View History Bookmarks Tools Help
http://193.7.168.79/en/systemstatus.pml
Getting Started Latest Headlines PortableApps.com PortableApps.com N...
C-MOR... and you see more...
C-MOR
...and you see more!
IP Video Surveillance
Version 3.12
Start Menu Quick Start Recordings System Administration System Status Logout
Cam 1 Cam 2 Cam 3 Cam 4 Cam 5 Cam 6
You are in the
System Status Menu
Used Disk Space
Display of the utilization of the internal hard disk.
System Capacity
The system capacity displays how much C-MOR is occupied. This value depends on the number of installed CPU cores. In an ideal case the permanent load of 1,0 times total number of cores should not be exceeded. The time displayed shows the time frame when the results were measured.
Cam Availability In The Network
C-MOR displays what cams are automatically detected in the network.
Cam Recordings
Display of the current cam status, showing where the recording is activated.
System Status
Used Disk Space
Free Disk Space: 262.80 Gigabyte(s)
System Capacity: 16% in use
Diskusage Cam 1: 3.32 Gigabyte(s)
Diskusage Cam 2: 0.48 Gigabyte(s)
Diskusage Cam 3: 1.78 Gigabyte(s)
Diskusage Cam 4: 40.37 Gigabyte(s)
Diskusage Cam 5: 1.28 Gigabyte(s)
Diskusage Cam 6: 0.00 Gigabyte(s)
System Utilization
Average System Utilization (1 Minute, 5 Minutes, 15 Minutes): 4.90, 4.88, 4.57
Cam Availability in the Network
Cam 1 is available in the Network: 193.7.168.75, TCP-Port 80
Cam 2 is available in the Network: 172.20.1.43, TCP-Port 80
Cam 3 is available in the Network: 172.20.1.47, TCP-Port 80
Cam 4 is available in the Network: 172.20.1.3, TCP-Port 80
Cam 5 is available in the Network: 172.20.1.7, TCP-Port 80
Cam 6, 172.20.1.29 TCP-Port 80 is not available.
As soon the camera is connected, the status will change here!
Cam Recordings
Recording for Cam 1 is active.
Recording for Cam 2 is active.
Recording for Cam 3 is active.
Recording for Cam 4 is active.
Recording for Cam 5 is active.
Recording for Cam 6 is not active!
Logfile
Jan 12 13:30:10 c-mor6t syslogd 1.4.1: restart (remote reception).
Done

2.6 Display Recordings

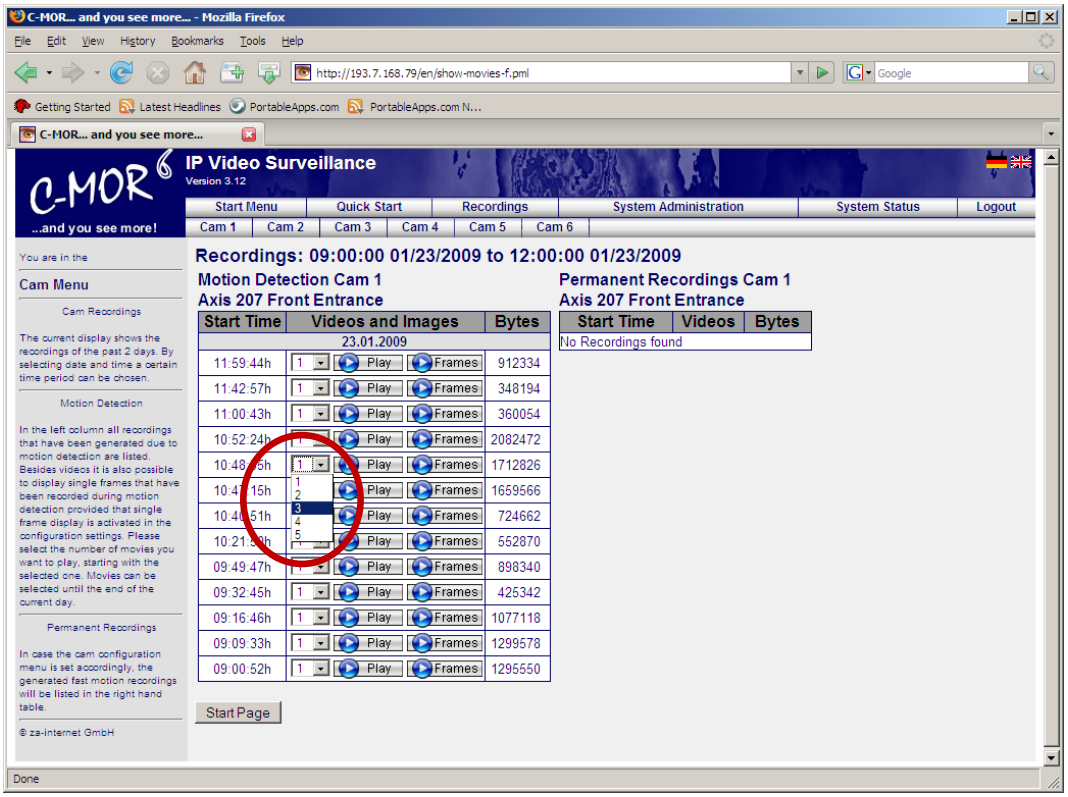
By clicking on the button Display Recordings you can display complete or selected recordings of a certain time period for the camera selected.





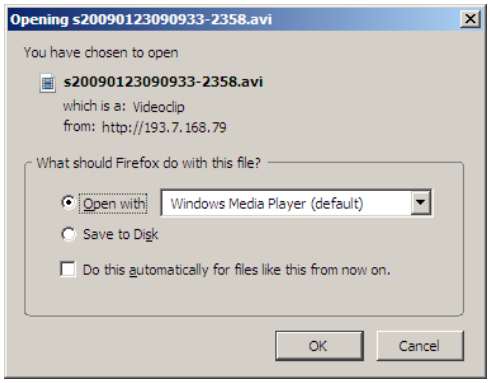
2.7 Saving of Recordings

Selected recordings can either be played as a video or saved. In order to carry out the requested action choose the number of scenes recorded so far that you want to play or save.

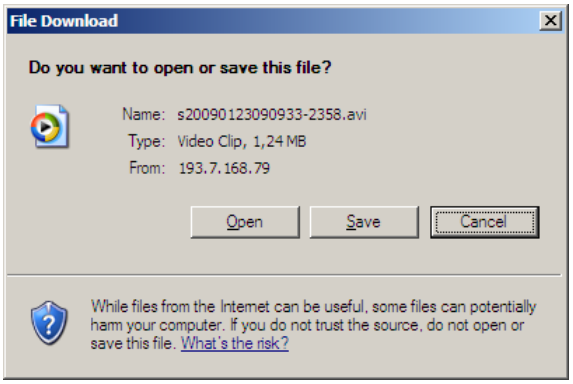


After clicking the browser will ask whether you would like to save or play all selected scenes.

Firefox



Microsoft Internet Explorer


File Download
Do you want to open or save this file?
Name: s20090123090933-2358.avi
Type: Video Clip, 1,24 MB
From: 193.7.168.79
Open
Save
Cancel
While files from the Internet can be useful, some files can potentially harm your computer. If you do not trust the source, do not open or save this file. What's the risk?

By clicking “save as” the browser will either offer to save the selected recording to a requested storage location on your computer or to play the recording.

Please note: C-MOR is trying to control the browser so that there is always the choice between saving or opening – meaning that recordings can either be saved or played.
In case the corresponding selection screen does not appear there is a customized setting in the browser itself on what will be executed concerning the data. In such a case please check the manual of the browser in order to find out how to deactivate the function (if desired).

Each recording that has been recorded due to motion detection also offers single frames of the event. Please click on

in order to get to the page where you can view the complete series of single frames and download them as a ZIP archive.

2.8 Play Recordings

Playback of recordings is basically carried out as saving recordings. But instead of selecting “save as” as browser function select “open file”. After clicking the option the application connected to video data will open automatically and directly play the recordings.

3 Administration

3.1 System Administration

Under **System Administration** the user can define all important configuration settings in order to adjust C-MOR to his requirements and make a smooth operation in the network possible. The following settings can be carried out over the system administration:

Carry out network or/and IP settings

Configuration of email address for global system alerts

Set time

Configure time server

Start/stop recordings (activate/deactivate camera)

Define storage time for recordings per camera

User administration

FTP backup of recordings

Image width of mobile devices

Setting standard language (German or English)

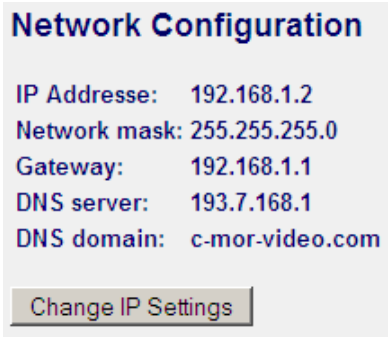
System reboot

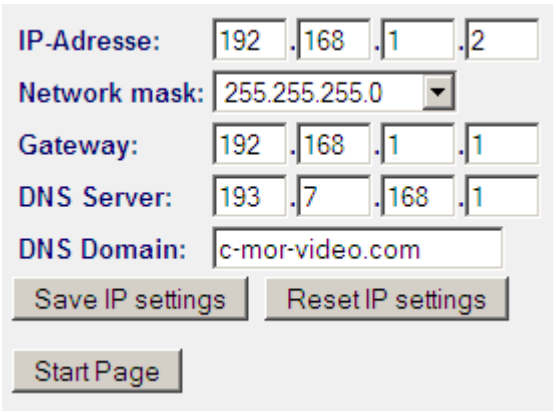
The following sub chapters go into the details of the different configuration options.

3.1.1 Change IP Settings

Under **Network Configuration** the current network configuration of C-MOR is displayed OK there the IP address of C-MOR, network mask, standard gateway and DNS server can be changed. The changes are immediately active, meaning that you can only reach C-MOR over the newly defined IP address. C-MOR continues working at that point!

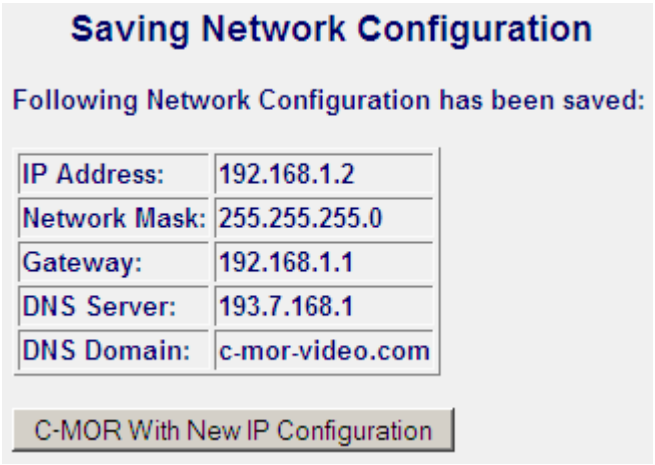
By clicking “Change IP Settings” the following entry mask appears for adjustment of IP settings:





After executing "Save IP Settings" C-MOR cannot be reached any more. By entering the new IP address in the address field of your browser, C-MOR can immediately be reached again.

In case the IP address has not been changed but a new IP gateway has been entered, C-MOR will confirm the changes as in the example below:



Please take your time when changing the IP address!

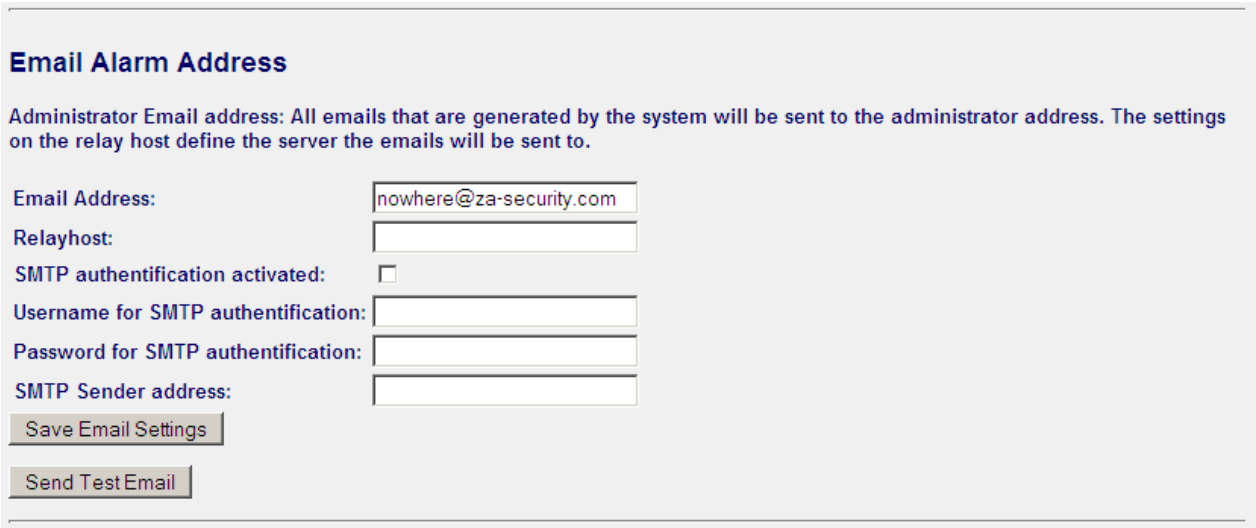
C-MOR will <u>immediately</u> continue working under the new IP address!

Uncontrolled activation/deactivation can lead to data loss and other failures!

3.1.2 Configuration Email Alarm

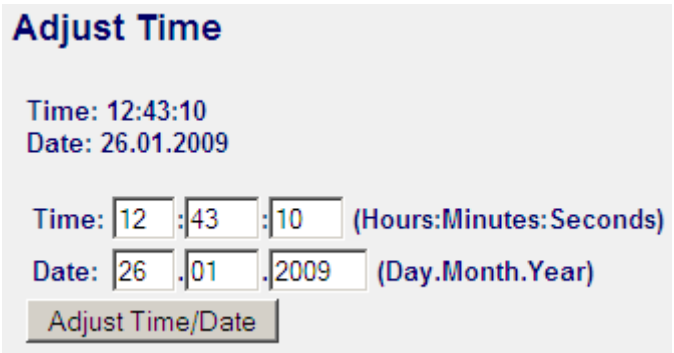
In the next field it is possible to enter your email address. All emails generated by C-MOR will be sent to the address defined. After having entered and saved email address and relay host it is possible to send a test mail to check the configuration.

Besides this function there is the possibility to enter settings for the SMTP Authentication. SMTP Authentication covers the incoming mail server, user name and password that allow the sending of emails over the mail server of your provider. Many email providers use this technology in order to ensure that the sender of an email is authentic.


Email Alarm Address
Administrator Email address: All emails that are generated by the system will be sent to the administrator address. The settings on the relay host define the server the emails will be sent to.
Email Address:
nowhere@za-security.com
Relayhost:
SMTP authentification activated:
Username for SMTP authentification:
Password for SMTP authentification:
SMTP Sender address:
Save Email Settings
Send Test Email

3.1.3 Time Adjustment

Here it is possible to adjust time and date. In order to make sure that the recordings of C-MOR have the correct time stamp it is necessary to set the exact time and date.

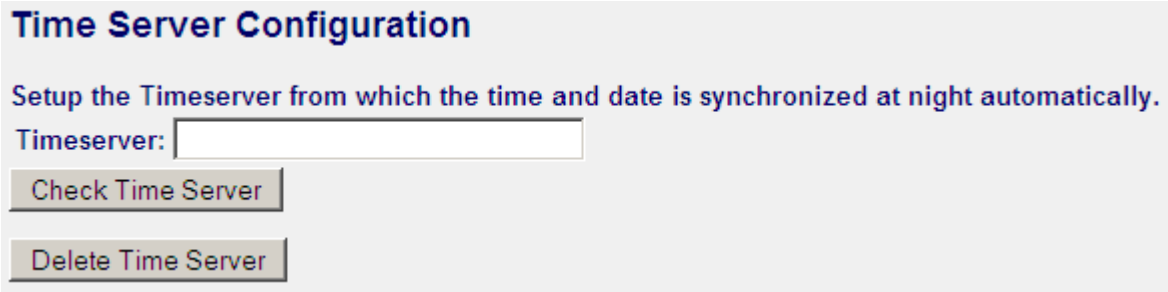


3.1.3.1 Configuration of Time Zone

Here the user is able to set the relevant time zone.

3.1.4 Time Server Configuration

Over this menu item the automated configuration of the time for C-MOR can be carried out.
The supported time protocol is Network Time Protocol (NTP).


Time Server Configuration
Setup the Timeserver from which the time and date is synchronized at night automatically.
Timeserver:
Check Time Server
Delete Time Server

Please note:

When setting this option please make sure that the internet connection to the time server is always active. In case the time server cannot be reached or delivers wrong data, the time on C-MOR will not be correct.

Examples for timeservers:

- · ntp-1.vt.edu
- · ntp-2.vt.edu

3.1.5 Activation/ Deactivation of Recordings

Under this menu item recordings for the individual cameras can be activated and deactivated.
This is the same function as on the respective camera configuration page.

3.1.6 Adjust Storage Time

By setting the storage time it is defined after how many days C-MOR recordings will be automatically deleted. Deletions by C-MOR are carried out at nighttime. The deletion includes
all types of recordings, motion detection recordings, single frames and fast motion recordings.

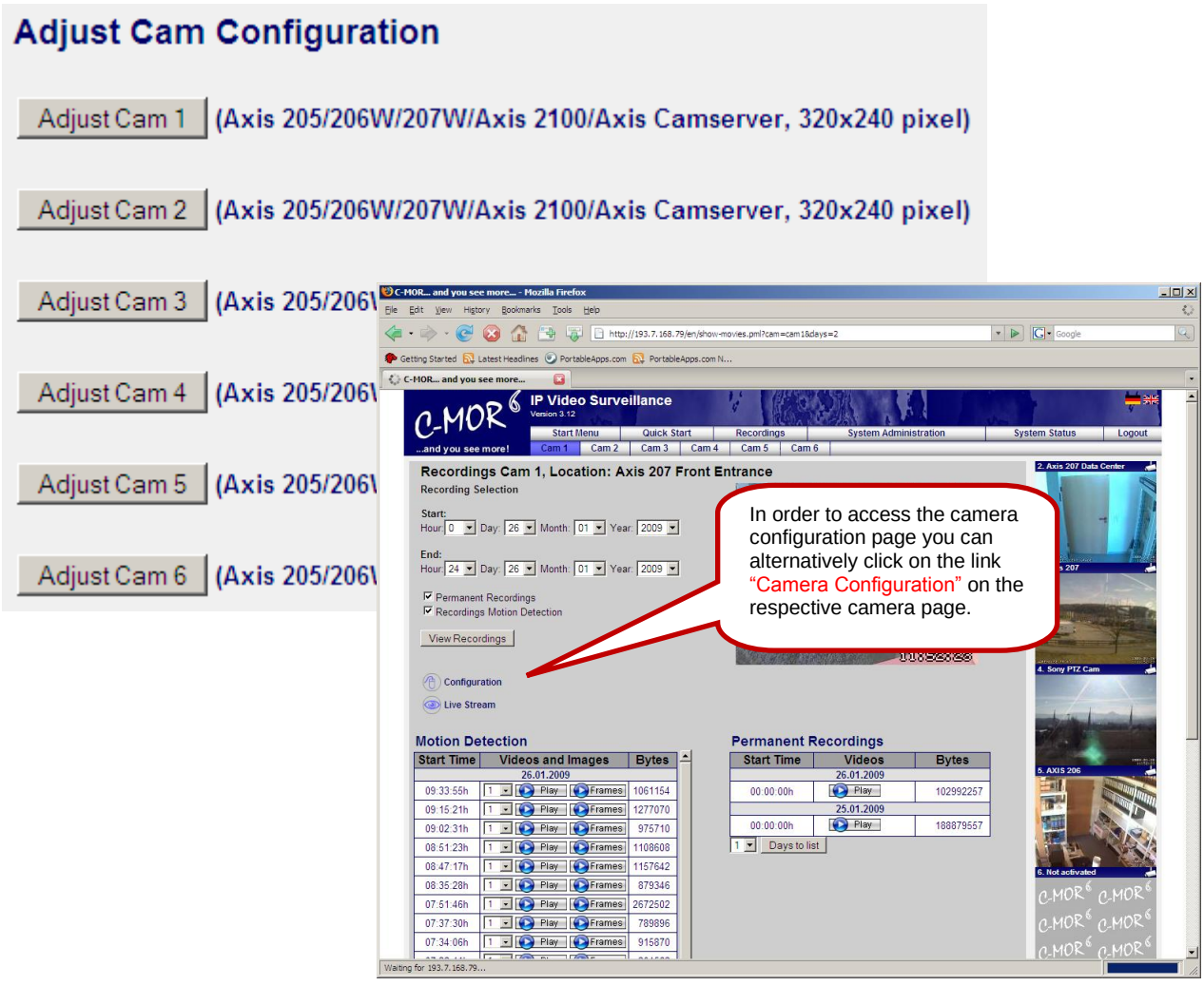
Adjust Time Of Archiving
Delete Recordings for Cam 1 after 10 days Save
Delete Recordings for Cam 2 after 10 days Save
Delete Recordings for Cam 3 after 10 days Save
Delete Recordings for Cam 4 after 10 days Save
Delete Recordings for Cam 5 after 10 days Save
Delete Recordings for Cam 6 after 10 days Save

3.1.7 Automated Deletion of Oldest Recordings

Irrespective of storage time settings, recordings can be automatically deleted. This enables C-MOR to continue recording instead of stopping when storage space is running low. Please be aware that automated deletion can lead to recordings being deleted too early and important video material getting lost.

3.1.8 Adjust Camera Configuration

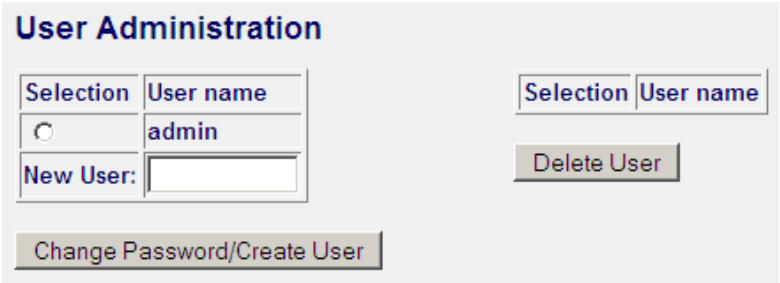
For each individual camera an own configuration page is available where parameters can be set. In order to access that page, please click on the button the requested camera and then the link "Camera Configuration".


Adjust Cam Configuration
Adjust Cam 1 (Axis 205/206W/207W/Axis 2100/Axis Camserver, 320x240 pixel)
Adjust Cam 2 (Axis 205/206W/207W/Axis 2100/Axis Camserver, 320x240 pixel)
Adjust Cam 3 (Axis 205/206
Adjust Cam 4 (Axis 205/206
Adjust Cam 5 (Axis 205/206
Adjust Cam 6 (Axis 205/206
IP Video Surveillance
Recordings Cam 1, Location: Axis 207 Front Entrance
In order to access the camera configuration page you can alternatively click on the link "Camera Configuration" on the respective camera page.
Configuration
Live Stream
Motion Detection
Permanent Recordings

Please find more information on camera configuration in chapter 3.2 on page 29.

3.1.9 User Administration

Under this section it is possible to create and delete different users and create and change passwords. By clicking the respective button you will be forwarded to the user administration page where it is possible to enter the password.



Please note:

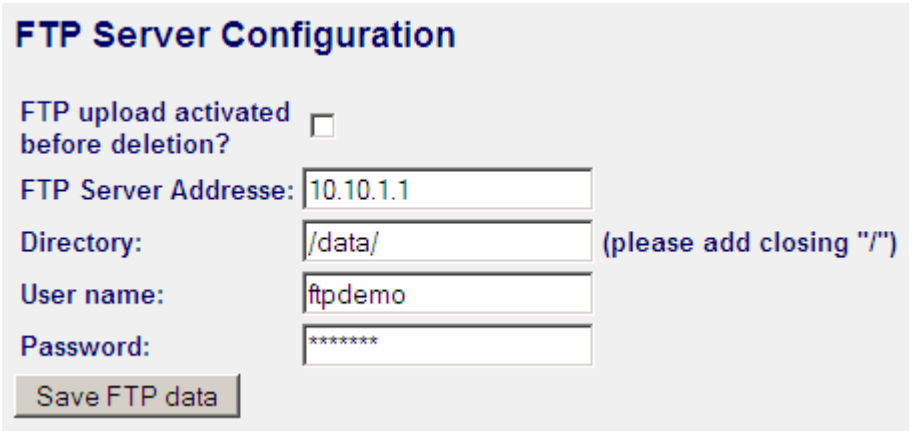
Only administrators are able to delete recordings or change the settings of the C-MOR configuration.

The user with the user name “demo” cannot change his password himself. This is a fixed setting by C-MOR. Thus this user is suitable for demonstration purposes and public access to videos.

3.1.10 FTP Server Configuration

By the use of the so-called File Transfer Protocol (FTP) recordings can be automatically copied to a FTP server. A FTP server can be a desktop PC with Windows operating system and FTP server software. By the help of FTP long-term storage or tape backup can be carried out.

Besides easy FTP server storage, C-MOR can also delete recordings after the copy process.



3.1.11 Image Size for Mobile Page

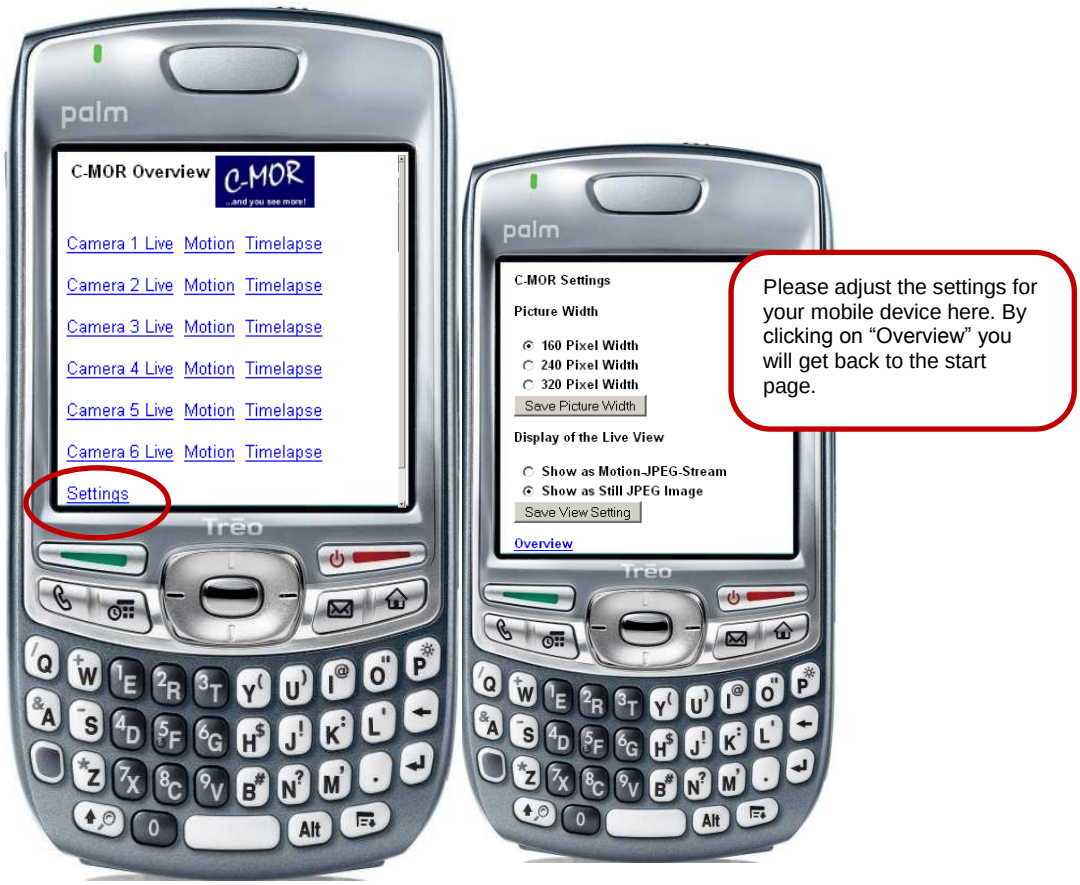
C-MOR offers the possibility to access video recordings and live images via mobile devices such as handhelds, smart phones and mobile phones – provided that these devices provide Internet access (e.g. UMTS or GPRS). As there are big differences between different displays this menu item enables the user to set the image size of the live image. Videos are always played in the size they have been originally recorded.

3.1.11.1 Access with Mobile Devices

In order to set up access to C-MOR for your mobile devices, please visit the following page:

https://<your IP address>/mobile

By clicking on the link "Settings" the page for adjusting your personal settings will open up, enabling you to define the necessary values for your mobile device.



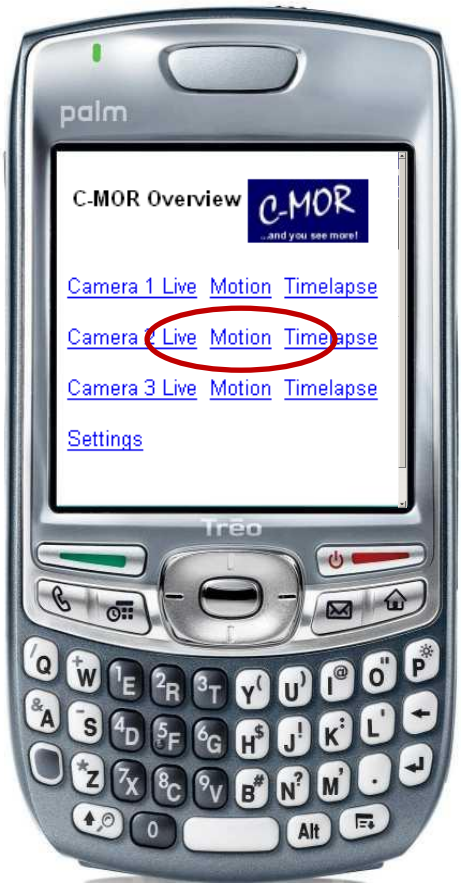
3.1.11.2 Display of Live Images on Mobile Devices

The live images of the cameras under mobile can be either displayed as freeze image with manual reload or as motion JPEG stream. Here you are able to select the option requested.

This setting can also be adjusted under "Settings" on the start page of your mobile page (please see graphics under "Access with Mobile Devices").

3.1.11.3 Display of Motion Detection or Permanent Recordings on Mobile Devices

Under mobile please find the recordings made during motion detection under “Motion” and under “Time Lapse” the recordings that have been made on the basis of the settings under “Camera Configuration”.



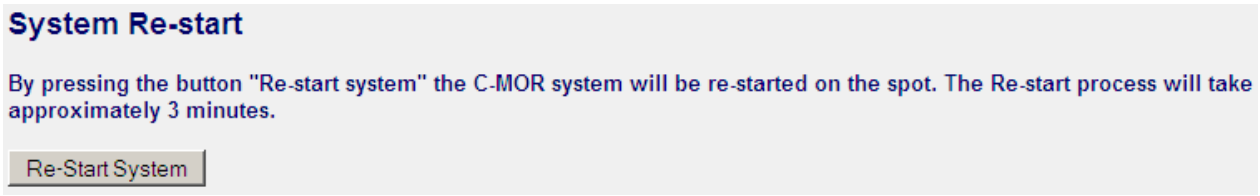
By clicking on a window will pop up, offering either to save or to open files. In case the data has already been connected to a specific player, the application will then open automatically and you will be able to view the recordings. Otherwise please open the video manually. By clicking on “Overview” you will return to the main page.

3.1.12 Language

The C-MOR application is available in German and English. By using this menu item the standard language can be set, which will then be used automatically as soon as you log into C-MOR. Alternatively it is possible to choose the language by clicking on the country flags top right in the menu.

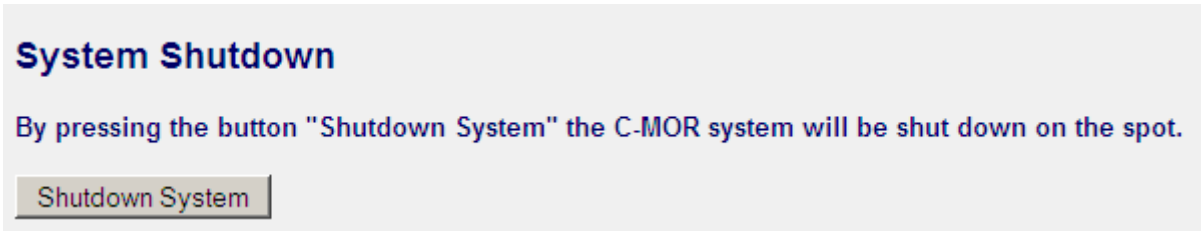
3.1.13 System Restart

In case of unexpected problems, using this menu item can restart C-MOR.


System Re-start
By pressing the button "Re-start system" the C-MOR system will be re-started on the spot. The Re-start process will take approximately 3 minutes.
Re-Start System

3.1.14 System Shutdown

In case you have to switch off C-MOR due to administrative work, please proceed under “System Shutdown”



3.2 Camera Configuration

3.2.1 General Description of Configuration Options

In order to configure a camera the following settings can be carried out:

- **Define description of the camera's location**
- **Activate / deactivate recordings**
- **Define camera network data**
- **Configuration of camera type (Axis, Mobotix, Panasonic, Sony, etc.)**
- **Threshold for motion detection**

  Parameters for motion detection. Different values have to be defined depending on the camera image.

- **Interval for fast motion recordings**

  Besides motion detection it is also possible to carry out permanent recording. Such a recording creates a video with images that are recorded according to the defined frequency.

- **Record mode for fast motion recordings**

  The interval for permanent record defines at what time and on what days a new recording should be started. This value can be set for recordings to start e.g. hourly, daily, monthly, every week on Sunday or every week on Monday.

- **Activation/deactivation of single frame recording during motion detection**

  Besides MPEG files during motion detection it is also JPEG singe frames that are recorded. Those can conveniently be saved over ZIP archive.

- **Number of frames for the prerecording previous to motion detection**

  Number of frames that are set at the beginning of a video during motion detection.

- **Number of frames during post recording. Images that are recorded after motion for security reasons**

  Number of frames that are added to a video after motion has ended.

- **Interval for recordings during motion detection**

  This parameter should be chosen carefully. The interval can be defined between 1 frame every 3 seconds up to 25 frames per second. Pay careful attention what the maximum number of frames per second can be delivered by the camera. In case a camera cannot record more than 5 frames per second, C-MOR is not able to record at a higher interval.

- **Rotation of the camera image by 0, 90, 180 or 270 degrees image rotation**

  Image rotation enables you to define whether images should be recorded at a rotation of 180 degrees or not. This makes sense in case the camera is e.g. installed hanging upside down from a ceiling.

- **Maximum recording time for motion detection recordings**

  This value defines the maximum length of a video recorded during motion detection. This is important for retrieval over the internet as single videos can be viewed much quicker due to smaller files.

- **Display frames and changed pixels**

  This parameter defines whether a frame will be displayed around the changed pixels or not. This is very helpful when the threshold for the camera image is being set.

- **Display date and time in the camera image**

  Feature for activating/deactivating the display of time and date in the camera image.

- **Automatic email alarm during motion detection**

  Feature for activating/deactivating the email alarm that is activated with motion detection by the camera. A simple text email is then sent, by request with or without video attachment.

- **Email address for alarm emails**

  This is where the email address has to be entered for emails that are being sent during motion detection or external alarm.

  Please note: in case of a lot of motion and many recordings that are effected during motion detection your mailbox might reach its storage limit very fast and cannot receive emails any more!

- **Activation/deactivation of video attachments in alarm emails**

  Please choose whether the recording during motion detection alarm should be attached to the email being sent or not.

- **Left-hand text in camera image**

  Optional text that can be displayed in the camera image left-hand side. Is the text field left empty, no text will be displayed in the image.

- **Activate/deactivate double size image text**

  The text in the camera image can be displayed at double size. Depending on application and image size this parameter offers a better display.

- **Quality of web camera image in percentage (setting of performance)**

  Image quality in percentage for the transfer of the camera image to C-MOR. Standard value is 50%. Changing this parameter has great influence on the system load and may overload C-MOR and lead to malfunctions.

- **Time between two events**

  Time in seconds when no motion is taking place and from when when a new recording is started.

- **Bit rate**

  The bit rate factor defines the bandwidth that images will be transferred from the camera to C-MOR. The lowest value 2 is the fastest. In case the size of the camera image is very high, the bit rate has to be increased. Otherwise the volume of the data might get too big for the creation of new videos and recordings cannot be effected. At the same time a high value decreases the image quality.

- **Necessary number of images for motion detection**

  This value defines how many images have to be changed one after the other so that motion can be detected. In most of the cases the value 1 is ideal for the comparison of an image.

- **Light incidence**

  Sudden light incidence leads to motion detection of non-existent motion. By defining this value the percentage set defines how high the number of images is that has to be ignored in case of sudden exposure to light, in order to prevent motion detection recording.

- **Time-controlled recordings**

  Setting of hour and day per week when recordings have to be carried out. This applies e.g. when recordings should only be carried out during nighttime at a store.

- **Time-controlled motion detection**

  Definition of hour and day per week when motion detection should be carried out.

- **Configuration of camera event for network alarms**

  Recordings by C-MOR can be triggered by the use of external switches (special accessories) that report events over your network. Here it is necessary to use an IP switch, which is sending messages to C-MOR via the so-called syslog service. This will then start a recording for the camera in question.

- **Image mask for the definition of the area of motion detection**

  In case motion should not be detected within the complete camera image the area where motion should be detected (white area) can be defined by a black & white mask. The defined black area will not trigger motion detection. The size of the image mask has to be identical to the size of the camera image.

- **Link to direct camera access**

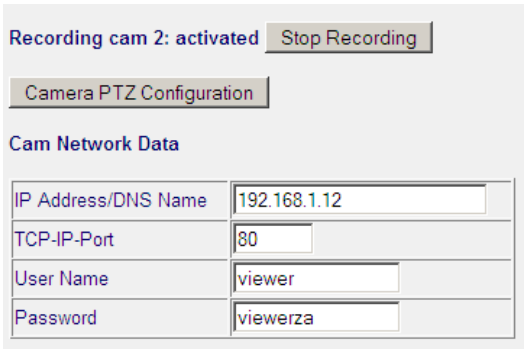
  This link enables the user to configure network cameras. This is just a link to the camera's IP address.

General information about motion detection:

Motion detection carried out by C-MOR is based on differences in the respective camera image and not due to conventional motion detectors (exception: special accessory external switch). Motion detection can also be effected by changes in light.

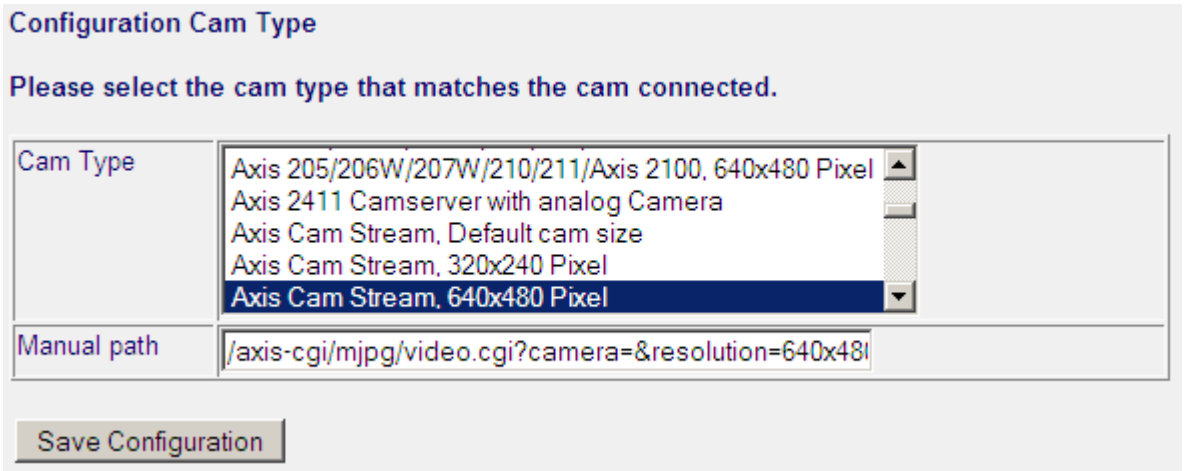
3.2.2 Camera Activation

Under “Start/Stop Of Recordings” it is possible to control the activities of the individual cameras and start or stop recordings. In case the recording of a camera is deactivated there will not be any saved video recordings of this camera. Depending on the camera configuration in case of an activated camera, permanent recordings and/or motion detection is saved in individual files.

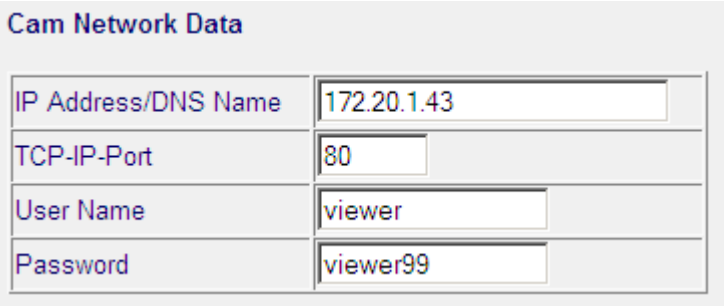


3.2.3 Camera Configuration, Integration of Existing Camera

Under **Adjust Camera Configuration** you can define further settings for the individual cameras.


Configuration Cam Type
Please select the cam type that matches the cam connected.
Cam Type
Axis 205/206W/207W/210/211/Axis 2100, 640x480 Pixel
Axis 2411 Camserver with analog Camera
Axis Cam Stream, Default cam size
Axis Cam Stream, 320x240 Pixel
Axis Cam Stream, 640x480 Pixel
Manual path
/axis-cgi/mjpg/video.cgi?camera=&resolution=640x48
Save Configuration

Under **Network Data** the following data is displayed: the current IP address of the camera, the TCP port, the user name and the password C-MOR is accessing the camera with.



When you change any data in this section you also have to change it on the individual camera with its own configuration program or over the web interface of the camera. Otherwise C-MOR is no longer able to access the camera and thus no longer able to record.

In case you already have a camera that is supported by C-MOR, you can integrate it by entering the IP address, the port, the user name and the password of your camera. The same settings have to be done for the camera itself.

Under **Configuration Camera Type** you can select the camera type that is most suitable for your camera. C-MOR currently supports all cameras with the standard JPG and MJPG. Currently supported models:

- Axis 206, Axis 207 und Axis 207W (wireless) as well as Axis 207M
- Axis 2100/Axis 210/Axis 211
- Axis 2411 und Axis 241X cam server with analogue cameras
- Mobotix M10 Secure Night/Day
- Panasonic BL-C1A
- Panasonic BL-C30A
- Panasonic KX-HCM230
- Sony SNC RZ25P Tilt/Zoom
- Veo IP 1100
- Analog digital converters
- Trendnet IP 100
- Trendnet IP 100W
- Trendnet IP 200
- Vivotek PZ6114
- Vivotek PZ6124
- Vivotek IP7138

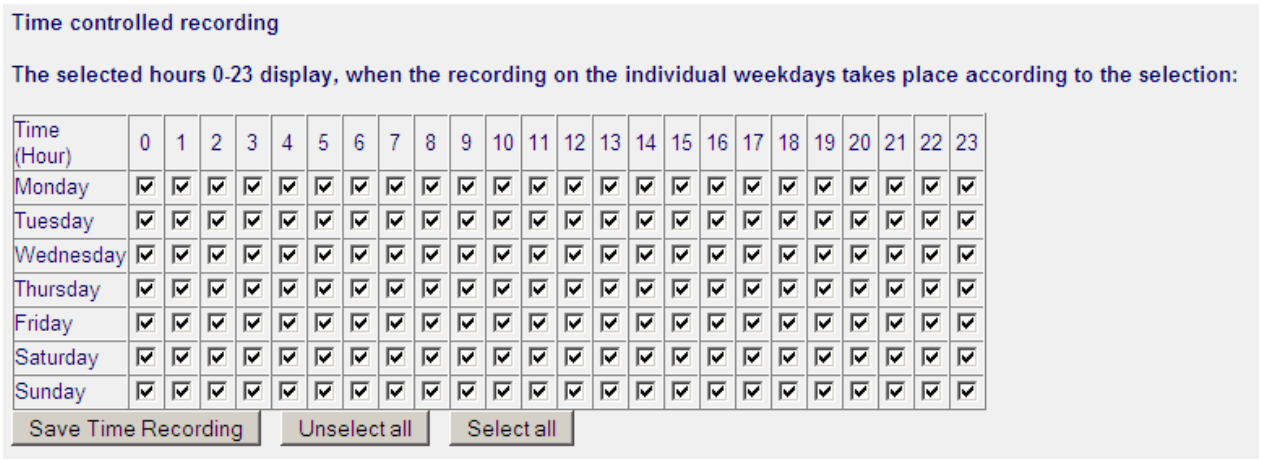
This list was created in June 2008 and shows just a small selection. The complete list including many more models can be viewed under www.c-mor.us. In case you cannot find your model in the list you can request the support of your model either by email or telephone, we will then give you all the details you need.

In case your camera is not listed but supported it can easily be connected under the item "Manual Path" in C-MOR. Just enter the directory of the URL of the camera's live image or the camera's MJPEG live stream, such as e.g.

/axis-cgi/jpg/image.cgi?resolution=640x480

After that single camera options such as image rotation or maximum recording time can be defined. The description of each setting can be found next to the respective option in the table.

On the same configuration page you are able to plan time-controlled recordings. Please click time and day when you would like to start the video surveillance.


Time controlled recording
The selected hours 0-23 display, when the recording on the individual weekdays takes place according to the selection:
Time (Hour) 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23
Monday
Tuesday
Wednesday
Thursday
Friday
Saturday
Sunday
Save Time Recording
Unselect all
Select all

Please carry out the settings in the table below for "Time Controlled Recording During Motion Detection" just as described above.

Recordings can be started by external events (door switches, ultrasonic motion detectors, bell switches and many more). This requires a network switch, like e.g. Barionet or other Syslog-IP switches, to send a system message to C-MOR. The message has to be in accordance with the line defined in this section, which will then trigger the recording.

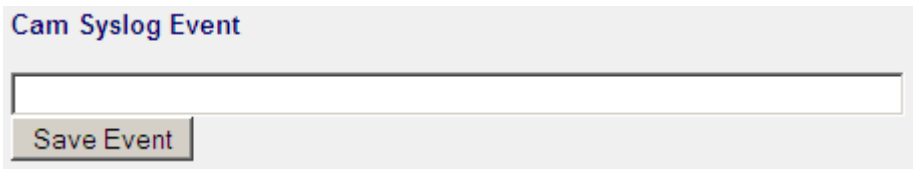
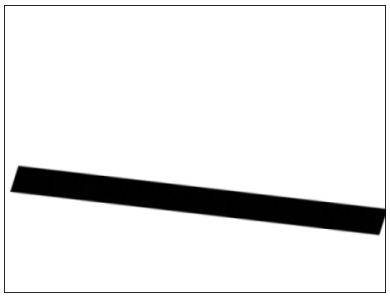


Image Mask for the Definition of the Areas for Motion Detection

C-MOR reacts to motion in the complete camera image. This might require some kind of limitation so that not every kind of motion leads to motion detection. Examples for that can be cars driving by or pedestrians at property lines. By using this function a black & white mask can be loaded. By the help of this mask C-MOR will only carry out motion detection in the respective white areas. The black & white mask can be created as follows: please start with creating a white image of the size of your camera resolution. Those areas where no motion detection should be effected, please add black layers. Then please save the graphic as a JPG file and upload it to
C-MOR. All black areas will then be ignored in terms of motion detection. Please also see the information on the following page.

In this example cars driving by would trigger motion detection.

In order to prevent this, please create a mask of the same size and upload it to your C-MOR.



C-MOR then lays the mask over the image section.

The black area will now be ignored during motion detection.

Over the following link you can access the camera's configuration interface:

Cam Administration (Setting of Cam)

The settings there will be directly saved in the camera which might lead to problems accessing the camera, especially in case of changes of the network configuration. In order to make the camera accessible for C-MOR again, you have to immediately enter all changes of the IP address, the port or the user settings into the C-MOR web interface under the item "**Configuration**" of the respective camera.

After changes in the camera configuration it might be possible that the camera has to be deactivated on the C-MOR web interface for a short time. Then activate it again.

4 Technical Specifications

Body	
Application	Digital video surveillance over a local network or the Internet, complete solution for up to 6 cameras
Basic Functions	-Plug & play installation -Full access over web browser without additional software -Permanent recordings with adjustable image interval and length of individual recordings (hours, days, weeks, months) -Recordings by motion detection -Recording time for permanent recordings and motion detection configurable via time table -Recordings up to 365 days -IP configuration over WWW interface or front display -Operation of up to 6 web cameras (Axis, Mobotix, Sony and many more) -Support of IP cameras with JPEG freeze image or MJPEG live stream -Support of numerous PTZ cameras -Support of handhelds/mobile devices with PTZ functions -Bilingual surface and manual: German and English -Use of alternative transmission paths such as radio data transmission and Ethernet over a 240 Volt power network
Extended C-MOR-Functions	-Email or SMS alarm in case of camera failure, vandalism, or error emails or SMS alarm in case of motion detection, individually adjustable per camera -Sends recordings by email -Automatic FTP backup for archiving/data backup -Internet remote access without additional software and without any software installation necessary on your PC -Use of black & white display masks for motion detection that can be freely defined and set according to your personal needs -Integration of external switches for door alarm, motion alarm, temperature alarm and many more -Support of mobile devices such as handhelds, smart phones and mobile phones with live image in pre-definable image size
C-MOR- Security Features	-Three-stage user rights, administrator, user and demo user rights -Encoded Internet access over SSL -SMTP authentication for email transmission
Standards	IEEE 802.3 (10BaseT), IEEE 802.3u (100BaseTX), HTTP 1.1, HTTPS, FTP, MPEG1, MPEG4, JPEG, SMTP
Data Links	2# Ethernet (1# only for maintenance purposes) 10/100 MBit, each RJ45, VGA monitor interface solely for maintenance purposes, PS2 keyboard and mouse
Display	optional 6x press key field with double spaced display and 16 characters each, on-off press key, reset button
Certifications	CE, EN55022 Class A, EN55024, EN 60950
Processor	Intel Pentium DC 2180 2,00 GHz
Main Memory	1024MB
Hard Drive	Seagate 500 GB SATA, 7200 U/min
Weight	approx. 10 kg
Power Supply	internal
Dimensions (WxHxD)	310 mm x 92 mm x 400 mm
Warranty	2 years

5 Legal Information

The software of C-MOR is a bundle consisting of free and commercial software.
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In case of an assumed warranty case, please contact our support during business hours. Please find contact details in the appendix.

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7 Appendix - Contact Information

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